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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**APPLICANTS:** Anthony C. Spearman et al.

**DATE MAILED:** May 9, 2004

**SERIAL NO.:** 09/660,709

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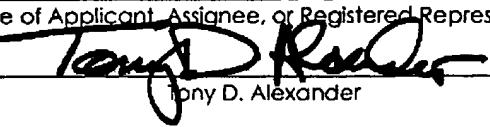
**FOR:** WIRELESS PROVISIONG DEVICE

**EXAMINER:** T. Nguyen

I hereby certify that this correspondence is being transmitted, via facsimile, to the US Patent and Trademark Office, on **May 9, 2004**, addressed to Technology Center 2600, Before Final Facsimile No.: 703,872,9314.

Tony D. Alexander

(Name of Applicant, Assignee, or Registered Representative)

  
Tony D. Alexander

May 9, 2004

(Date of Signature)

### AMENDMENT AND RESPONSE

Dear Sir:

A Non-Final Office Action was mailed on **November 10, 2003**, in the above-referenced case. The period for response to the Office Action was set to expire on February 10, 2004. With the granting of the accompanying Petition, the period for response will be extended to expire on **May 10, 2004**, therefore, this response is timely filed.

The U.S. Patent & Trademark Office is authorized to charge any deficiency or to credit any overpayment for any fees required for this filing to Deposit Account No.50-1949.

In response to the above-referenced Office Action, please amend the application in the claims as follows (support for the following claim amendments is found in the application specification at, e.g., page 3 line 18 through page 5 line 13; page 6 lines 2-18; page 19 line 13 through page 20 line 2; page 20 lines 3-16; page 20 line 19 through page 21 line 14; page 23 lines 11-23; and page 26 lines 3-13):

07/15/2004 MGORDON 00000001 501949 09660709

01 FC:1201	172.00 DA
02 FC:1202	72.00 DA

1           1. (Previously Amended): A wireless provisioning device for use in  
2 public domain networks wherein the wireless provisioning device is accessible by  
3 a user of mobile computing devices, comprising:  
4                 a chassis;  
5                 at least one network card;  
6                 at least one wireless card;  
7                 at least one processor;  
8                 an operating system, the operating system operably configured in  
9 the chassis to control the at least one network card, the at least one  
10 wireless card and the at least one processor, which are operatively  
11 coupled with the chassis;  
12                 a packet-switched interface capable of receiving a multiplicity of  
13 inbound framed packet-data to provide inbound packets and  
14 transmitting a multiplicity of outbound framed packet-data comprising  
15 outbound packets;  
16                 a channeling controller, coupled to the packet-switched interface  
17 that channels the inbound packets based on the inbound address  
18 information and constructs the outbound packets and channels the  
19 outbound packets with the outbound address information, the  
20 channeling controller capable of being effectively connected to at least  
21 one network via the operating system; and  
22                 an authenticator in operative communication with the operating  
23 system to allow authentication at the wireless provisioning device;  
24                 whereby the user of a mobile computing device connects to the  
25 wireless provisioning device without having to first access the Internet.

1           2. (Original): The wireless provisioning device of claim 1, wherein the  
2 channeling controller routes the outbound packets.

1           3. (Original): The wireless provisioning device of claim 2, wherein the  
2 channeling controller routes the outbound packets.

1           4. (Original): The wireless provisioning device of claim 1, wherein the  
2 channeling controller bridges the inbound packets.

1           5. (Original): The wireless provisioning device of claim 4, wherein the  
2 channeling controller bridges the outbound packets.

1           6. (Original): The wireless provisioning device of claim 1, wherein the  
2 operating system of the wireless provisioning device is an open source UNIX  
3 based system.

1           B7. (Previously Amended): A wireless provisioning device, comprising:  
2           a chassis;  
3           at least one network card;  
4           at least one wireless card;  
5           at least one processor;  
6           a LINUX operating system, the operating system operably  
7           configured in the chassis to control the at least one network card, the at  
8           least one wireless card and the at least one processor;  
9           a packet-switched interface capable of receiving a multiplicity of  
10          inbound framed packet-data to provide inbound packets and  
11          transmitting a multiplicity of outbound framed packet-data comprising  
12          outbound packets;  
13          a channeling controller, coupled to the packet-switched interface  
14          that channels the inbound packets based on the inbound address  
15          information and that constructs the outbound packets and channels the  
16          outbound packets with the outbound address information, the

17 channeling controller capable of being effectively connected to at least  
18 one network via the operating system.

1 ✓ 8. (Previously Amended): The wireless provisioning device of claim 1,  
2 wherein the wireless provisioning device further comprises a second processor.

1 ✓ 9. (Original): The wireless provisioning device of claim 1, wherein the  
2 wireless provisioning device further comprises a memory device and a storage  
3 device.

1 ✓ 10. (Previously Amended): A system for allowing users to securely  
2 access public domain area networks via mobile computing devices, comprising:  
3 a plurality of wireless access points;

4       at least one wireless provisioning device for receiving,  
5 authenticating, transmitting, and directing data over a plurality of  
6 networks and capable of sustaining connectivity between the wireless  
7 access points and the wireless provisioning device, the wireless  
8 provisioning device comprising a chassis, at least one network card, at  
9 least one wireless card, at least one processor, and at least one operating  
10 system operably configured in the chassis and associated with at least  
11 one of the plurality of wireless access points for transmitting and receiving  
12 data between the wireless access point and a carrier structure and where  
13 the wireless provisioning device is capable of accommodating multiple  
14 connections back to the wireless access point without requiring rebooting  
15 before a new roaming member can be added to the system;

16       a carrier structure communicably positioned between the wireless  
17 provisioning device and the plurality of wireless access points for  
18 transmitting and receiving data between the wireless provisioning device  
19 and the plurality of wireless access points by means of a secure  
20 connections; and

21           a security authentication protocol, initiated by the wireless  
22       provisioning device, capable of authenticating traffic as it passes through  
23       the carrier structure.

1            (Previously Amended): A system for allowing users to securely  
2       access public domain area networks via mobile computing devices, comprising:

3                 a plurality of wireless access points;  
4                 at least one wireless provisioning device for receiving,  
5       authenticating, transmitting, and directing data over a plurality of  
6       networks and capable of sustaining connectivity between the wireless  
7       access points and the wireless provisioning device, the wireless  
8       provisioning device comprising a chassis, at least one network card, at  
9       least one wireless card, at least one processor, and at least one operating  
10      system operably configured in the chassis and associated with at least  
11      one of the plurality of wireless access points for transmitting and receiving  
12      data between the wireless access point and a carrier structure and where  
13      the wireless provisioning device is capable of accommodating multiple  
14      connections back to the wireless access point without requiring rebooting  
15      before a new roaming member can be added to the system, the wireless  
16      provisioning device further comprises a directory services member  
17      operatively connected to the operating system thereof, which is suitable  
18      for maintaining a database directory that stores MAC addresses and  
19      billing profiles for those in the system;

20                 a carrier structure communicably positioned between the wireless  
21       provisioning device and the plurality of wireless access points for  
22       transmitting and receiving data between the wireless provisioning device  
23       and the plurality of wireless access points by means of a secure  
24       connections; and

25            a security authentication protocol, initiated by the wireless  
26        provisioning device, capable of authenticating traffic as it passes through  
27        the carrier structure.

1            16. (Original): The system of claim 11, wherein the wireless provisioning  
2        device is capable of bridging.

1            17. (Original): The system of claim 16, wherein the wireless provisioning  
2        device is capable of routing

3            18. (Canceled)

1            19. (Original): The system of claim 11, wherein the carrier structure is a  
2        suitable antenna for providing bridging solutions that afford the user the ability to  
3        place wireless equipment in a wide area network.

1            20. (Previously Amended): The system of claim 11, wherein the security  
2        authentication protocol is a radius authentication protocol.

1            21. (Previously Amended): The system of claim 11, wherein the wireless  
2        provisioning device provides proxy service.

1            22. (Previously Amended): The system of claim 11, wherein the wireless  
2        provisioning device provides firewall service.

1            23. (Previously Amended): A system, comprising:  
2              a plurality of wireless access points;  
3              at least one wireless provisioning device for receiving, transmitting,  
4              and directing data over a plurality of networks and capable of sustaining  
5              connectivity between the wireless access points and the wireless  
6              provisioning device, the wireless provisioning device comprising a chassis,  
7              at least one network card, at least one wireless card, at least one  
8              processor, and at least one operating system operably configured in the

9 chassis and associated with at least one of the plurality of wireless access  
10 points for transmitting and receiving data between the wireless access  
11 point and a carrier structure and where the wireless provisioning device is  
12 capable of accommodating multiple connections back to the wireless  
13 access point without requiring rebooting before a new roaming member  
14 can be added to the system, the wireless provisioning device further  
15 comprises a directory services member operatively connected to the  
16 operating system thereof, which is suitable for maintaining a database  
17 directory that stores MAC addresses and billing profiles for those in the  
18 system;

19 a carrier structure communicably positioned between the wireless  
20 provisioning device and the plurality of wireless access points for  
21 transmitting and receiving data between the wireless provisioning device  
22 and the plurality of wireless access points by means of a secure shell telnet  
23 connection; and

24 a security authentication protocol capable of authenticating  
25 traffic as it passes through the carrier structure.

26 20. (Previously Amended): The system of claim 11, wherein the system  
27 comprises at least one antenna.

28 21. a plurality of wireless access points;

29 22. at least one wireless provisioning device for receiving,  
30 authenticating, transmitting, and directing data over a plurality of  
networks and capable of sustaining connectivity between the wireless  
access points and the wireless provisioning device, the wireless  
provisioning device comprising a chassis, at least one network card, at  
least one wireless card, at least one processor, and at least one  
operating system operably configured in the chassis and associated  
with at least one of the plurality of wireless access points for  
transmitting and receiving data between the wireless access point

13 and a carrier structure and where the wireless provisioning device is  
14 capable of accommodating multiple connections back to the wireless  
15 access point without requiring rebooting before a new roaming  
16 member can be added to the system, the wireless provisioning device  
17 further comprises a directory services member operatively connected  
18 to the operating system thereof, which is suitable for maintaining a  
19 database directory that stores MAC addresses and billing profiles for  
20 those in the system;

21 a carrier structure communicably positioned between the wireless  
22 provisioning device and the plurality of wireless access points  
23 for transmitting and receiving data between the wireless provisioning  
24 device and the plurality of wireless access points by means of a secure  
25 connections; and

26 a security authentication protocol, initiated by the wireless  
27 provisioning device, capable of authenticating traffic as it passes  
28 through the carrier structure.

1 21. (Previously Amended): A system for allowing users to securely  
2 access public domain area networks via mobile computing devices, comprising:

3 a plurality of wireless access points;

4 at least one wireless provisioning device for receiving,  
5 authenticating, transmitting, and directing data over a plurality of  
6 networks and capable of sustaining connectivity between the wireless  
7 access points and the wireless provisioning device, the wireless  
8 provisioning device comprising a chassis, at least one network card, at  
9 least one wireless card, at least one processor, and at least one operating  
10 system operably configured in the chassis and associated with at least  
11 one of the plurality of wireless access points for transmitting and receiving  
12 data between the wireless access point and a carrier structure and where  
13 the wireless provisioning device is capable of accommodating multiple

14 connections back to the wireless access point without requiring rebooting  
15 before a new roaming member can be added to the system;

16 a 2.4 GHz antenna operatively coupled with the wireless  
17 provisioning device;

18 a carrier structure communicably positioned between the wireless  
19 provisioning device and the plurality of wireless access points for  
20 transmitting and receiving data between the wireless provisioning device  
21 and the plurality of wireless access points by means of a secure  
22 connections; and

23 a security authentication protocol, initiated by the wireless  
24 provisioning device, capable of authenticating traffic as it passes through  
25 the carrier structure.

1 *D* 22. (Previously Amended): The system of claim *11*, wherein the  
2 operating system of the wireless provisioning device is an open source Unix  
3 based system.

1 *D* 23. (Previously Amended): A system, comprising:

2 a plurality of wireless access points;

3 at least one wireless provisioning device for receiving, transmitting,  
4 and directing data over a plurality of networks and capable of sustaining  
5 connectivity between the wireless access points and the wireless  
6 provisioning device, the wireless provisioning device comprising a chassis,  
7 at least one network card, at least one wireless card, at least one  
8 processor, and at least one LINUX operating system operably configured  
9 in the chassis and associated with at least one of the plurality of wireless  
10 access points for transmitting and receiving data between the wireless  
11 access point and a carrier structure and where the wireless provisioning  
12 device is capable of accommodating multiple connections back to the  
13 wireless access point without requiring rebooting before a new roaming  
14 member can be added to the system, the wireless provisioning device

15 further comprises a directory services member operatively connected  
16 to the operating system thereof, which is suitable for maintaining a  
17 database directory that stores MAC addresses and billing profiles for  
18 those in the system;

19 a carrier structure communicably positioned between the wireless  
20 provisioning device and the plurality of wireless access points for  
21 transmitting and receiving data between the wireless provisioning device  
22 and the plurality of wireless access points by means of a secure  
23 connections; and

24 a security authentication protocol capable of authenticating  
25 traffic as it passes through the carrier structure.

1 24. (Previously Added): The wireless provisioning device of claim 1,  
2 wherein the network card, the wireless card, the processor, the operating system,  
3 the packet-switched interface, and the channel controller are operatively  
4 disposed within the chassis of the wireless provisioning device.

1 25. (Previously Added): The wireless provision device of claim 24,  
2 wherein the authenticator is operatively disposed within the chassis of the  
3 wireless provisioning device.

1 26. (Previously Added): The wireless provisioning device of claim 1,  
2 wherein bandwidth to individual user can be controlled by the wireless  
3 provisioning device operating system.

1 27. (Previously Added): The wireless provisioning device of claim 1,  
2 wherein the protocol type of an individual user can be controlled by the wireless  
3 provisioning device operating system.

1 28. (Previously Added): The system of claim 20, wherein there is more  
2 than one antenna and the user is capable of logging on and sustain  
3 connectivity with the system while transitioning antennas.

24  
1 29. (Previously Added): The system of claim 20, wherein the user is  
2 capable of logging onto and sustaining connectivity with the system while  
3 transitioning access points.

25  
1 30. (New): The wireless provisioning device of claim 23, wherein the  
2 network card, the wireless card, the processor, the operating system, the packet-  
3 switched interface, and the channel controller are operatively disposed within  
4 the chassis of the wireless provisioning device.

26  
1 31. (New): The wireless provision device of claim 30, wherein the  
2 authenticator is operatively disposed within the chassis of the wireless  
3 provisioning device.

27  
1 32. (New): The wireless provisioning device of claim 23, wherein  
2 bandwidth to individual user can be controlled by the wireless provisioning  
3 device operating system.

28  
1 33. (New): The wireless provisioning device of claim 23, wherein the  
2 protocol type of an individual user can be controlled by the wireless provisioning  
3 device operating system.

In response to the above-referenced Office Action, please consider the following remarks.